

# Siltronic Corporation Site

## Use of Enhanced In-situ Bioremediation Along the Willamette River

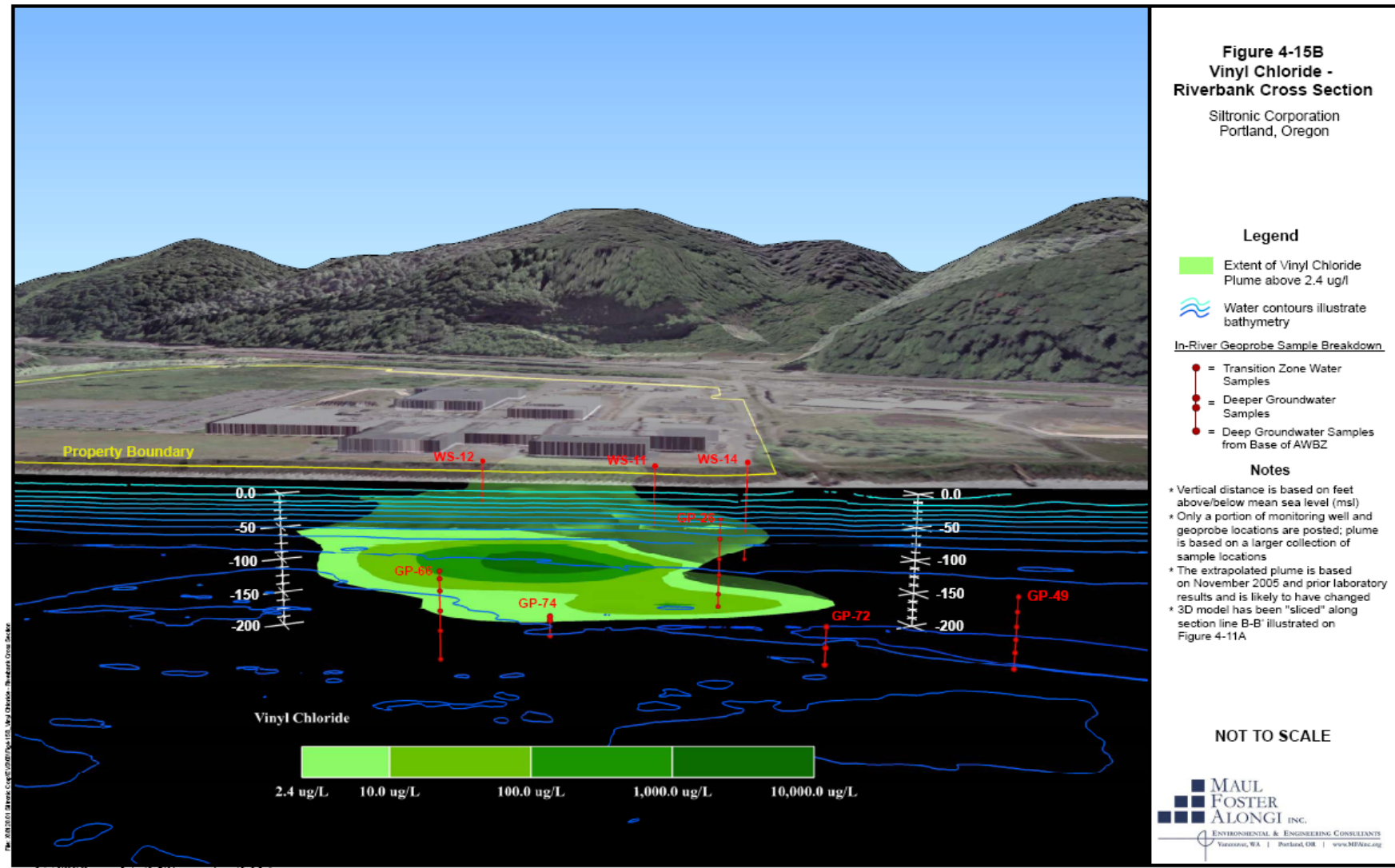
# Background

- Siltronic former operations caused a release of cVOCs (TCE and breakdown products) in the vicinity of a former solvent UST system
- cVOC groundwater plume extends from release area under and into river
- Detected concentrations of cVOCs exceed state and federal risk screening criteria
- Siltronic property is also contaminated by NW Natural's former Gasco MGP (e.g., effluent overflow pond, fill)
- cVOCs commingle with MGP DNAPL and dissolved constituents in northern portion of Siltronic property

# Background (cont.)



# Background (cont.)

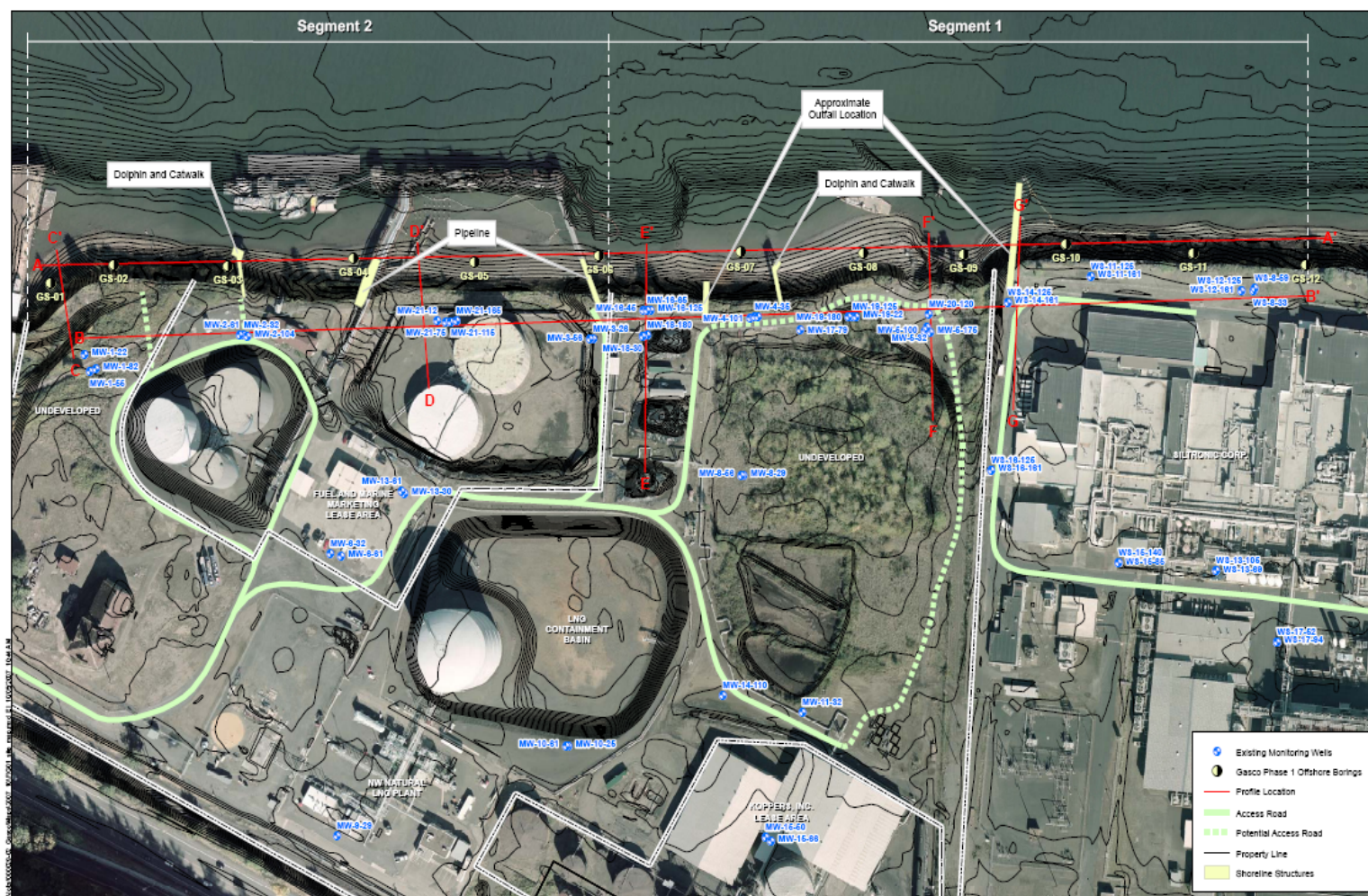


# Background (cont.)

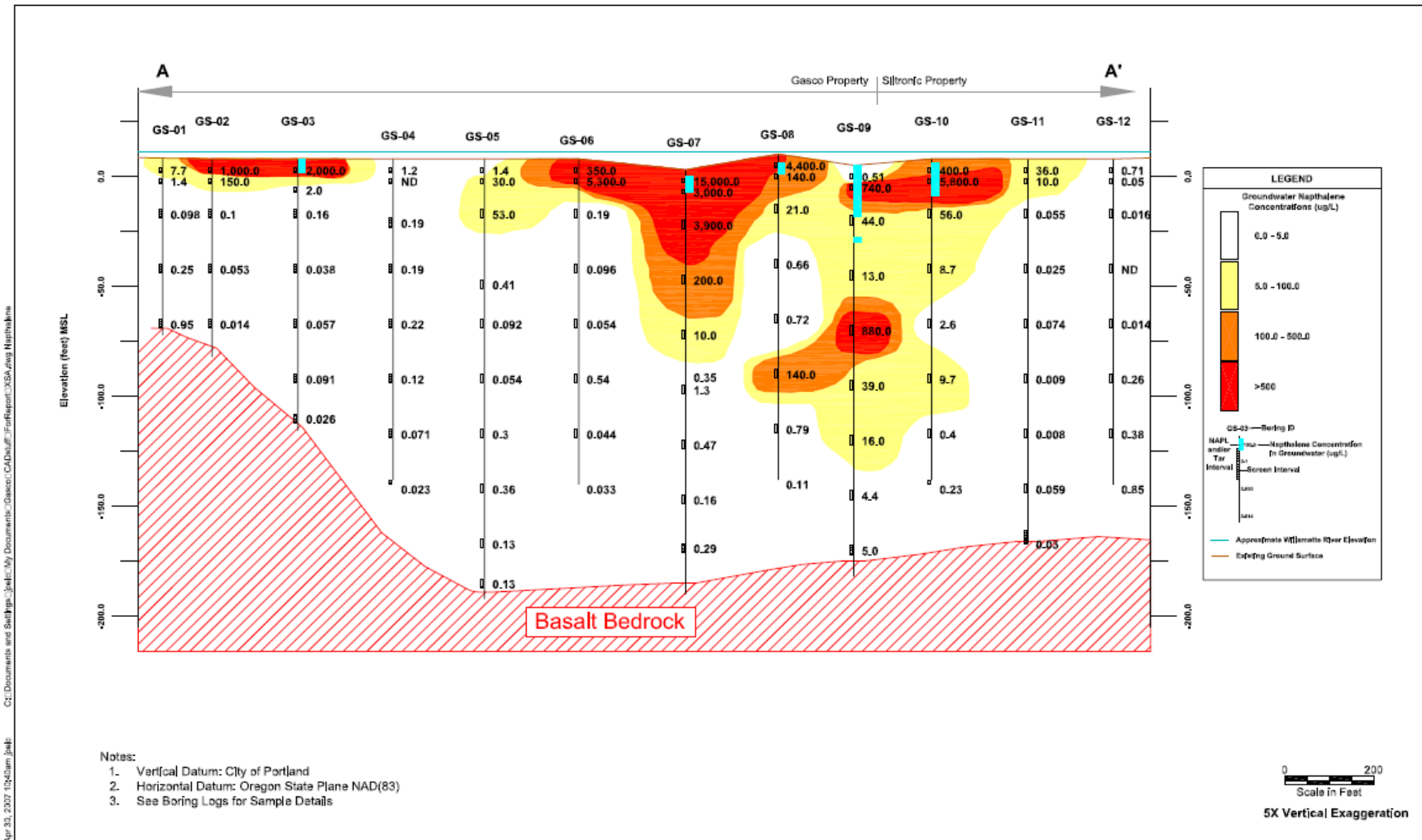
- Commingling occurs within the Gasco/Siltronic shoreline segment (Segment 1) exhibiting the heaviest contamination
- DEQ has identified Segment 1 as the highest priority for source control at the Gasco/Siltronic site
- NW Natural's and Siltronic FFSs both evaluate source control measures alternatives for Segment 1
- NW Natural recommended SCM alternative relies on a vertical barrier combined with hydraulic containment
- Siltronic's FFS proposed using enhanced in-situ bioremediation (EIB) to address cVOCs in release area and at riverbank



## Background (cont.)



# Background (cont.)



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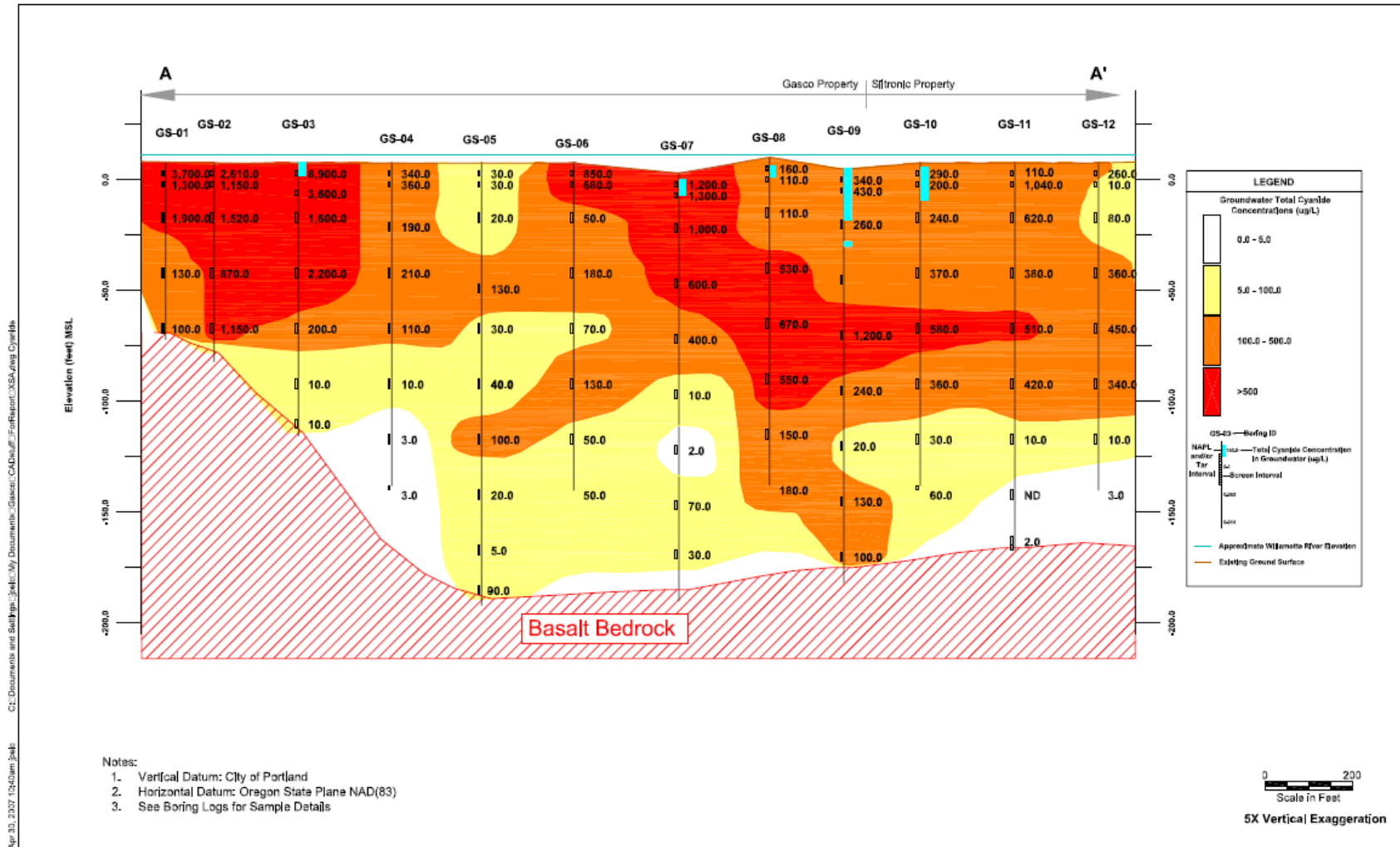
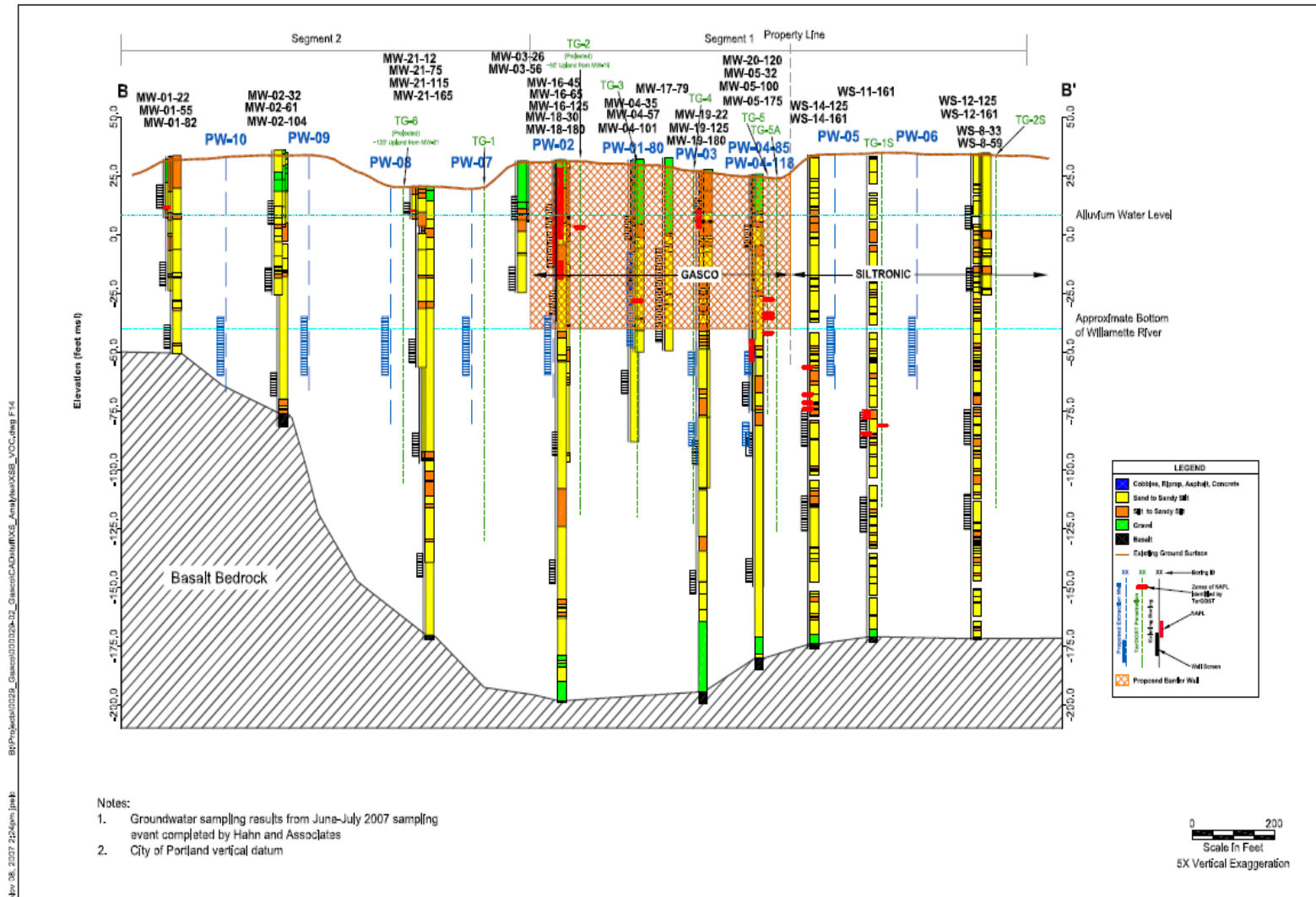


Figure 5c



# Background (cont.)



# Background (cont.)

